

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

Listing Of Claims

1. (Currently Amended) A non-transitory computer-readable medium having a data structure for managing reproduction of at least one still picture, comprising:

a data area storing first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data, the still picture being reproduced as a slideshow, the audio data being reproduced with the slideshow; and

a navigation area storing at least one playlist file and first and second clip information files, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file

including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file,

wherein the at least one still picture and associated graphic data in the still picture unit are reproduced synchronously based on the at least one playitem,

wherein the audio data is reproduced independently from the at least one still picture unit and reproduced without interrupting reproduction of the still picture unit as the slideshow based on the at least one sub-playitem,

wherein the stream files, the playlist file, and the clip information files are separate from each other and have different file extensions,

wherein at least one of the first and second clip information files includes type information indicating that the audio data associated with the sub-playitem is for the slideshow.

2. (Previously Presented) The non-transitory computer-readable medium of claim 1, wherein the entry point of the first entry point map provides an address of the still picture.

3. – 11. (Cancelled)

12. (Previously Presented) The non-transitory computer-readable medium of claim 1, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

13. (Previously Presented) The non-transitory computer-readable medium of claim 12, wherein each elementary stream of the presentation data are aligned within the still picture unit.

14. (Previously Presented) The non-transitory computer-readable medium of claim 13, wherein each elementary stream is a packetized elementary stream.

15. (Previously Presented) The non-transitory computer-readable medium of claim 14, wherein each still picture unit includes one packet from each packetized elementary stream.

16-17. (Cancelled)

18. (Currently Amended) A method of recording a data structure for managing reproduction of at least one still picture on a recording medium, comprising:

recording first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data, the still picture being reproduced as a slideshow, the audio data being reproduced with the slideshow; and

recording at least one playlist file and first and second clip information files, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, the at least one playitem further including duration

information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file,

wherein the at least one still picture and associated graphic data in the still picture unit are reproduced synchronously based on the at least one playitem,

wherein the audio data is reproduced independently from the at least one still picture unit and reproduced without interrupting reproduction of the still picture unit as the slideshow based on the at least one sub-playitem,

wherein the stream files, the playlist file, and the clip information files are separate from each other and have different file extensions,

wherein at least one of the first and second clip information files includes type information indicating that the audio data associated with the sub-playitem is for the slideshow.

19. (Currently Amended) A method of reproducing a data structure for managing reproduction of at least one still picture recorded on a recording medium, comprising:

reproducing first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still

picture unit not including the audio data, the still picture being reproduced as a slideshow, the audio being reproduced with the slideshow; and

reproducing at least one playlist file and first and second clip information files, the at least one playlist including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file,

wherein the at least one still picture and associated graphic data in the still picture unit are reproduced synchronously based on the at least one playitem,

wherein the audio data is reproduced independently from the at least one still picture unit and reproduced without interrupting reproduction of the still picture unit as the slideshow based on the at least one sub-playitem,

wherein the stream files, the playlist file, and the clip information files are separate from each other and have different file extensions,

wherein at least one of the first and second clip information files includes type information indicating that the audio data associated with the sub-playitem is for the slideshow.

20. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least one still picture on a recording medium, comprising:

a pick up configured to record data on the recording medium; and

a controller configured to control the pick up to record first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data, the still picture being reproduced as a slideshow, the audio data being reproduced with the slideshow, and configured to control the pick up to record at least one playlist file and first and second clip information files, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file,

wherein the at least one still picture and associated graphic data in the still picture unit are reproduced synchronously based on the at least one playitem,

wherein the audio data is reproduced independently from the at least one still picture unit and reproduced without interrupting reproduction of the still picture unit as the slideshow based on the sub-playitem,

wherein the stream files, the playlist files and the clip information files are separate from each other and have different file extensions,

wherein at least one of the first and second clip information files includes type information indicating that the audio data associated with the sub-playitem is for the slideshow.

21. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of at least one still picture recorded on a recording medium, comprising:

a pick up configured to reproduce data recorded on the recording medium; and
a controller configured to control the pick up to reproduce first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data, the still picture being reproduced as a slideshow, the audio data being reproduced with the slideshow, and configured to control the pick up to reproduce at least one playlist file, a first clip information file and a second clip information file, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, the at least one playitem further including duration information indicating whether to display at least one still picture for one of a finite and an infinite period of time, the at least one sub-playitem indicating an in-

point and an out-point of second stream file for reproducing the audio data, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file,

wherein the at least one still picture and associated graphic data in the still picture unit are reproduced synchronously based on the at least one playitem,

wherein the audio data is reproduced independently from at the least one still picture unit and reproduced without interrupting reproduction of the still picture unit as the slideshow based on the at least one sub-playitem,

wherein the stream files, the playlist file, and the clip information files are separate from each other and have different file extensions,

wherein at least one of the first and second clip information files includes type information indicating that the audio data associated with the sub-playitem is for the slideshow.

22. – 25. (Cancelled)

26. (Previously Presented) The method of claim 18, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

27. (Previously Presented) The method of claim 26, wherein each elementary stream of the presentation data are aligned within the still picture unit.

28. – 31. (Cancelled)

32. (Previously Presented) The method of claim 19, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

33. (Previously Presented) The method of claim 32, wherein each elementary stream of the presentation data are aligned within the still picture unit.

34. – 37. (Cancelled)

38. (Previously Presented) The apparatus of claim 20, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

39. (Previously Presented) The apparatus of claim 38, wherein each elementary stream of the presentation data are aligned within the still picture unit.

40. – 43. (Cancelled)

44. (Previously Presented) The apparatus of claim 21, wherein the presentation data is multiplexed into a transport stream on a still picture unit basis.

45. (Previously Presented) The apparatus of claim 44, wherein each elementary stream of the presentation data are aligned within the still picture unit.

46. (Previously Presented) The method of claim 19, wherein the recording medium is a read-only recording medium.

47. (Previously Presented) The method of claim 19, wherein the recording medium is a recordable recording medium.

48. (Previously Presented) The apparatus of claim 21, wherein the recording medium is a read-only recording medium.

49. (Previously Presented) The apparatus of claim 21, the recording medium is a recordable recording medium.

50. (Previously Presented) The apparatus of claim 20, further comprising:

an encoder configured to encode data;

a multiplexer configured to multiplex the encoded data to create a data stream;

and

a source packetizer configured to packetize the data stream into source packets.

51. (Previously Presented) The apparatus of claim 21, further comprising:

a source depacketizer configured to depacketize source packets a data stream;

a demultiplexer configured to demultiplex the data stream into an encoded data; and

a decoder configured to decode the encoded data to original data to be displayed.

52. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of at least one still picture recorded on a recording medium, comprising:

a pick up configured to reproduce data recorded on the recording medium; and
a controller configured to control the pick up to reproduce first and second stream files, the first stream file including presentation data, the second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture and associated graphic data, the at least one still picture unit not including the audio data, the still picture being reproduced as a slideshow, the audio data being reproduced with the slideshow, and

configured to control the pick up to reproduce at least one playlist file and first and second clip information files, the at least one playlist file including at least one playitem and at least one sub-playitem, the at least one playitem indicating an in-point and an out-point of the first stream file for reproducing the presentation data, the at least one sub-playitem indicating an in-point and an out-point of the second stream file for reproducing the audio data, the first clip information file including a first entry point map, the first entry point map including at least one entry point mapping between a presentation time and a unit of the first stream file, the second clip information file including a second entry point map, the second entry point map including at least one entry point mapping between a presentation time and a unit of the second stream file,

wherein the at least one still picture and associated graphic data in the still picture unit are reproduced synchronously based on the at least one playitem,

wherein the audio data is reproduced independently from the at least one still picture unit and reproduced without interrupting reproduction of the still picture unit as the slideshow based on the at least one sub-playitem,

wherein the stream files, the playlist file, and the clip information files are separate from each other and have different file extensions,

wherein at least one of the first and second clip information files includes type information indicating that the audio data associated with the sub-playitem is for the slideshow.

53. (Previously Presented) The apparatus of claim 52, further comprising:
a source depacketizer configured to depacketize source packets into a data stream;

a demultiplexer configured to demultiplex the data stream into an encoded data; and

a decoder configured to decode the encoded data to an original data to be displayed.

54. (New) The non-transitory computer-readable medium of claim 1, wherein the still picture is positioned in a first portion of each still picture unit.

55. (New) The non-transitory computer-readable medium of claim 1, wherein the still picture unit includes a single still picture and the associated graphic data.

56. (New) The method of claim 18, wherein the still picture is positioned in a first portion of each still picture unit.

57. (New) The method of claim 18, wherein the still picture unit includes a single still picture and the associated graphic data.

58. (New) The method of claim 19, wherein the still picture is positioned in a first portion of each still picture unit.
59. (New) The method of claim 19, wherein the still picture unit includes a single still picture and the associated graphic data.
60. (New) The apparatus of claim 20, wherein the still picture is positioned in a first portion of each still picture unit.
61. (New) The apparatus of claim 20, wherein the still picture unit includes a single still picture and the associated graphic data.
62. (New) The apparatus of claim 21, wherein the still picture is positioned in a first portion of each still picture unit.
63. (New) The apparatus of claim 21, wherein the still picture unit includes a single still picture and the associated graphic data.
64. (New) The apparatus of claim 52, wherein the still picture is positioned in a first portion of each still picture unit.
65. (New) The apparatus of claim 52, wherein the still picture unit includes a single still picture and the associated graphic data.

<End of Claims Listing>